

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P830121

Luminaire Tested: **OHBL-24SE-MFL-UNV-L840-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830121
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-24SE-MFL-UNV-L840-CD
Description: 24000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

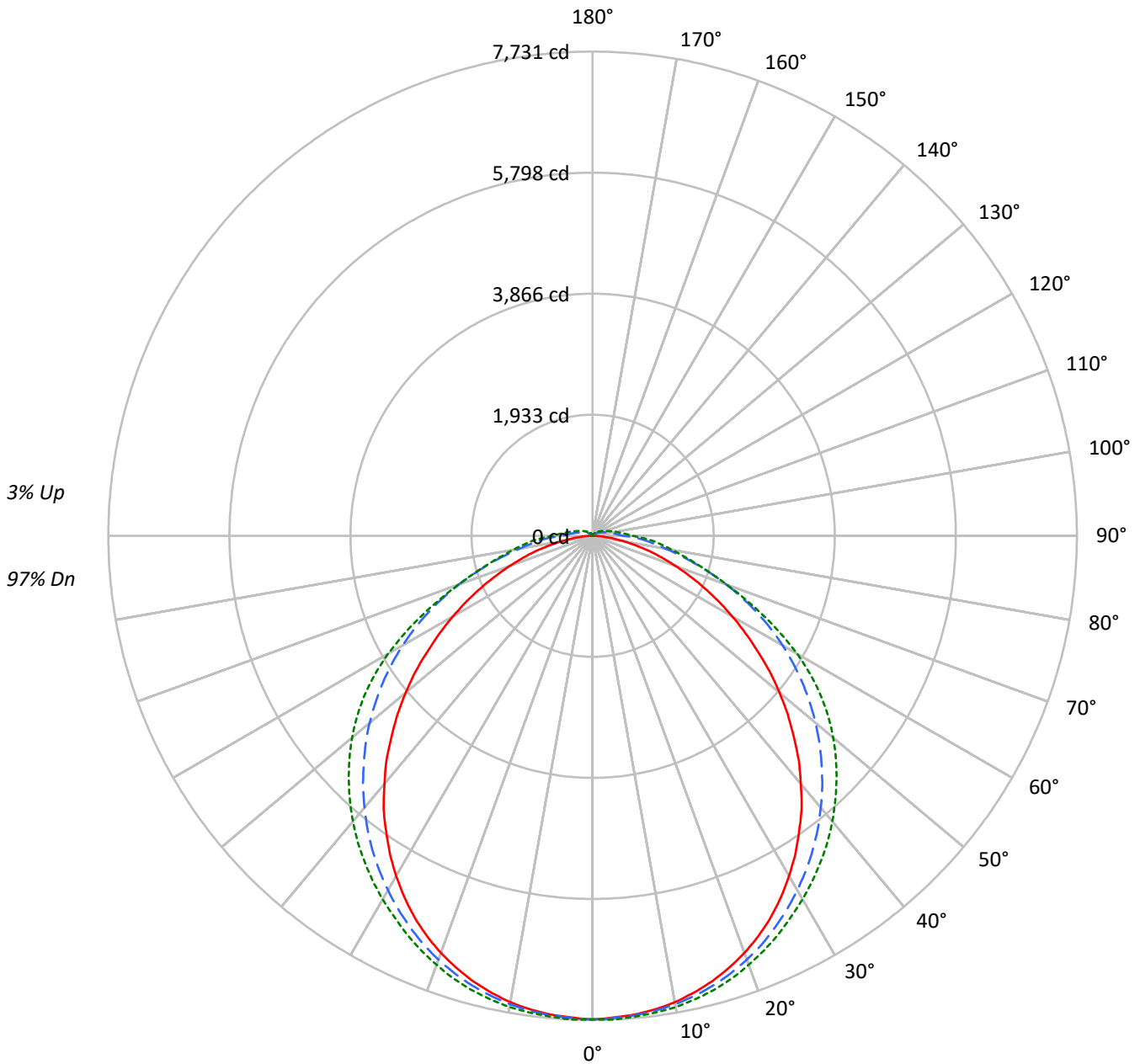
Lumens per Lamp: N/A
Luminaire Lumens: 23116.0 lumens
Efficiency: N/A
Efficacy: 167.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 138
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

TEST NUMBER: P830121

CATALOG NUMBER: OHBL-24SE-MFL-UNV-L840-CD

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	99	97
1	107	102	98	94	104	100	96	92	95	91	88	90	88	85	86	84	82	86	84	82	80
2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	75	72	68	66
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	67	62	58	56
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	59	54	50	47
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	53	48	43	41
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	48	43	38	36
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	44	38	34	32
8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	41	35	30	28
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	37	32	27	25
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13192	13192	13192
5°	13108	13061	13099
10°	13016	12940	13022
15°	12870	12797	12923
20°	12678	12622	12783
25°	12420	12406	12641
30°	12063	12172	12498
35°	11631	11923	12373
40°	11112	11636	12248
45°	10500	11325	12091
50°	9830	11009	11902
55°	9008	10624	11589
60°	8165	10170	10980
65°	7245	9593	9989
70°	6248	8858	8915
75°	5238	8007	8175
80°	3971	7376	8055
85°	2512	7598	8884



TEST NUMBER: P830121

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	731.9	3.2
10°-20°	2099.6	9.1
20°-30°	3175.3	13.7
30°-40°	3812.0	16.5
40°-50°	3937.2	17.0
50°-60°	3542.2	15.3
60°-70°	2668.3	11.5
70°-80°	1611.2	7.0
80°-90°	788.0	3.4
90°-100°	331.7	1.4
100°-110°	189.3	0.8
110°-120°	111.1	0.5
120°-130°	62.9	0.3
130°-140°	33.1	0.1
140°-150°	16.1	0.1
150°-160°	6.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	6006.8	26.0
0°-40°	9818.8	42.5
0°-60°	17298.2	74.8
0°-90°	22365.8	96.8
90°-120°	632.2	2.7
90°-150°	744.2	3.2
90°-180°	750.0	3.2
0°-180°	23116.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7724	7724	7724	7724	7724	
5°	7675	7695	7686	7716	7707	729
15°	7365	7400	7435	7497	7504	2076
25°	6726	6799	6896	7004	7021	3094
35°	5750	5884	6126	6312	6350	3595
45°	4539	4767	5166	5448	5506	3504
55°	3215	3548	4087	4395	4448	2883
65°	1962	2363	2892	3036	3002	1949
75°	924	1327	1675	1718	1701	986
85°	193	508	839	955	972	223
90°	0	198	480	605	630	12
95°	10	134	359	458	474	8
105°	13	78	208	272	284	13
115°	15	44	128	172	180	15
125°	15	21	78	112	117	14
135°	13	17	40	68	76	10
145°	19	17	19	34	40	11
155°	19	21	19	17	19	6
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P830121

CATALOG NUMBER: OHBL-24SE-MFL-UNV-L840-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7723.8	7723.8	7723.8	7723.8	7723.8
2.5°	7701.1	7720.0	7708.7	7733.2	7731.4
5°	7674.6	7695.4	7686.0	7716.2	7706.8
7.5°	7629.3	7652.0	7650.1	7684.1	7680.3
10°	7563.1	7587.7	7595.3	7640.6	7640.6
12.5°	7472.4	7504.5	7523.4	7578.2	7580.1
15°	7364.6	7400.5	7434.6	7497.0	7504.5
17.5°	7234.2	7279.6	7326.8	7398.7	7408.1
20°	7086.8	7137.8	7202.1	7277.7	7289.0
22.5°	6916.6	6977.1	7060.3	7149.1	7162.4
25°	6725.7	6799.4	6895.8	7003.6	7020.6
27.5°	6508.3	6593.4	6723.8	6844.8	6859.9
30°	6272.0	6372.2	6534.8	6678.5	6703.0
32.5°	6022.5	6137.8	6338.2	6498.9	6532.9
35°	5750.3	5884.5	6126.5	6311.7	6349.5
37.5°	5481.9	5629.3	5903.4	6115.1	6160.5
40°	5168.1	5351.5	5665.2	5899.6	5954.5
42.5°	4873.2	5071.7	5427.1	5682.3	5735.2
45°	4538.6	4767.4	5166.2	5447.9	5506.5
47.5°	4224.8	4472.5	4914.8	5205.9	5266.4
50°	3894.0	4166.2	4646.4	4950.7	5013.1
52.5°	3563.2	3856.2	4368.5	4684.2	4742.8
55°	3215.4	3548.1	4086.8	4395.0	4447.9
57.5°	2892.2	3243.8	3797.6	4090.6	4122.8
60°	2572.7	2937.5	3502.7	3759.8	3771.2
62.5°	2260.8	2644.5	3200.3	3404.4	3389.3
65°	1962.1	2362.9	2892.2	3035.8	3001.8
67.5°	1674.8	2088.8	2576.5	2669.1	2623.7
70°	1402.6	1822.3	2270.3	2317.5	2275.9
72.5°	1162.5	1569.0	1960.2	1999.9	1969.7
75°	924.4	1327.0	1674.8	1718.3	1701.3
77.5°	701.3	1092.6	1412.1	1468.8	1472.5
80°	504.7	879.0	1183.3	1272.2	1283.5
82.5°	332.7	682.4	992.4	1105.8	1122.8
85°	192.8	508.5	839.3	954.6	971.6
87.5°	83.2	366.7	674.8	778.8	799.6
90°	0.0	198.5	480.1	604.9	629.5
92.5°	5.7	164.5	412.1	525.5	546.3
95°	9.5	134.2	359.2	457.5	474.5
97.5°	11.3	113.4	311.9	398.9	415.9
100°	11.3	98.3	270.3	349.7	364.8
102.5°	11.3	87.0	236.3	306.2	319.5
105°	13.2	77.5	207.9	272.2	283.5



TEST NUMBER: P830121

CATALOG NUMBER: OHBL-24SE-MFL-UNV-L840-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	15.1	51.0	143.7	192.8	200.4
115°	15.1	43.5	128.5	172.0	179.6
117.5°	17.0	37.8	113.4	155.0	160.7
120°	17.0	32.1	100.2	138.0	145.6
122.5°	17.0	26.5	88.8	124.8	130.4
125°	15.1	20.8	77.5	111.5	117.2
127.5°	13.2	17.0	66.2	100.2	105.9
130°	13.2	15.1	56.7	88.8	94.5
132.5°	13.2	17.0	47.3	77.5	85.1
135°	13.2	17.0	39.7	68.1	75.6
137.5°	13.2	17.0	32.1	58.6	66.2
140°	15.1	17.0	26.5	49.1	56.7
142.5°	17.0	17.0	20.8	41.6	47.3
145°	18.9	17.0	18.9	34.0	39.7
147.5°	18.9	18.9	18.9	26.5	32.1
150°	18.9	20.8	18.9	20.8	26.5
152.5°	18.9	20.8	18.9	17.0	20.8
155°	18.9	20.8	18.9	17.0	18.9
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	13.2	68.1	183.4	242.0	251.4
110°	13.2	60.5	162.6	215.5	224.9



(END OF REPORT)